AMENDMENT

In the Claims:

Please cancel Claims 1-57, without prejudice, and add the following new Claims 58-86:

58. (New) A retroviral vector comprising a first region encoding a fusion polypeptide capable of generating a cyclic peptide, the fusion polypeptide comprising a C-terminal intein motif, a peptide and an N-terminal intein motif.

59. (New) The retroviral vector of Claim 58 in which the encoded fusion polypeptide has altered splicing activity as compared to a wild-type intein.

60. (New) The retroviral vector of Claim 58 in which the peptide is a random peptide.

61. (New) The retroviral vector of Claim 58 in which the peptide is derived from a cDNA library.

62. (New) The retroviral vector of Claim 58 which further comprises a second region encoding a reporter protein.

63. (New) The retroviral vector of Claim 62 in which the reporter protein is a fluorescent protein.

64. (New) The retroviral vector of Claim 63 in which the fluorescent protein is selected from the group consisting of a green fluorescent protein, a blue fluorescent protein, a yellow fluorescent protein and a red fluorescent protein.

65. (New) The retroviral vector of Claim 62 in which the reporter protein is a transcription factor.

66. (New) The retroviral vector of Claim 58 which further comprises a second region encoding a fusion partner.

64 ~~67~~. (New) A library of retroviral vectors of Claim 11, wherein each vector of the library encodes a different fusion polypeptide.

69 ~~68~~. (New) The library of Claim 67 in which the peptide of each different fusion polypeptide is different.

70 ~~69~~. (New) The library of Claim 68 in which each peptide is a random peptide that is at least 3 amino acids in length.

71 ~~70~~. (New) The library of Claim 68 or 69 in which the C-terminal and N-terminal intein motifs of each of the different fusion polypeptides are the same.

72 ~~71~~. (New) The library of Claim 67 in which the C-terminal intein motif and/or N-terminal intein motif of each different fusion polypeptide is different.

73 ~~72~~. (New) The library of Claim 67 in which the amino acid sequence of the C-terminal intein motif of each different fusion polypeptide includes a mutation as compared to the amino acid sequence of a wild-type C-terminal intein motif.

74 ~~73~~. (New) The library of Claim 67 in which the amino acid sequence of the N-terminal intein motif of each different fusion polypeptide includes a mutation as compared to the amino acid sequence of a wild-type N-terminal intein motif.

75 ~~74~~. (New) The library of any one of Claims 71-73 in which each vector further comprises a second region encoding a reporter protein.

76 ~~75~~. (New) The library of Claim 74 in which the reporter protein is a fluorescent protein.

77 ~~76~~. (New) The library of Claim 75 in which the fluorescent protein is selected from the group consisting of a green fluorescent protein, a blue fluorescent protein, a yellow fluorescent protein and a red fluorescent protein.

78 ~~77~~. (New) The library of any one of Claims 71-73 in which the peptide of each different fusion polypeptide is the same.

78. (New) The library of Claim 77 in which each vector further comprises a second region encoding a reporter protein.

79. (New) The library of Claim 78 in which the reporter protein is a fluorescent protein.

80. (New) The library of Claim 79 in which the fluorescent protein is selected from the group consisting of a green fluorescent protein, a blue fluorescent protein, a yellow fluorescent protein and a red fluorescent protein.

81. (New) A cell comprising the retroviral vector of Claim 11, or progeny thereof.

82. (New) The cell of Claim 81 which is a eukaryotic cell.

83. (New) The cell of Claim 81 which is a mammalian cell.

84. (New) The cell of Claim 83 which is selected from the group consisting of a tumor cell, a liver cell, a hepatocyte, a mast cell and a lymphocyte cell.

85. (New) The cell of Claim 83 which is a human cell.

86. (New) The cell of Claim 85 which is selected from the group consisting of a tumor cell, a liver cell, a hepatocyte, a mast cell and a lymphocyte cells.